Miami-Dade County, Florida

DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS

BOARD AND CODE ADMINISTRATION DIVISON

PRODUCT CONTROL SECTION

Laboratory Certificate



11805 S.W. 26 Street-Room 208 Miami, Florida 33175-2474 T (786) 315-2590 Fax (786) 315-2599

This certifies that Momentum Technologies, inc. located at 1507 Boettler Road, Uniontown, OH 44685 is an approved Testing Laboratory in accordance with Miami-Dade County Department of Permiting, Environment, and Regulatory Affairs and Protocol 7A5301-94, and is Certified to perform the following tests:

TAS103 See attached qualifications sheet.	ASTM D227	ASTM D4799
TAS104 See attached qualifications sheet	ASTM D249	ASTM D4897
TAS110 See attached qualifications sheet	ASTM D412	ASTM D4977
TAS114 Appendix H (Section 4 only)	ASTM D449	ASTM D4990
TAS114 Appendix I	ASTM D450 (Except 6.1.3 & 6.1.8)	ASTM D5601
TAS131	ASTM D751	ASTM D5602
TAS132 See attached qualifications sheet	ASTM D1864	ASTM D6083
TAS138	ASTM D2521	ASTM D6152
TAS139	ASTM D2626	ASTM D6162
TAS140 (Excludes Xenon Weathering)	ASTM D2822	ASTM D6163
TAS141 (Excludes Section 7.6)	ASTM D2829	ASTM D6164
TAS142	ASTM D2939 (Except 18&23-29)	ASTM D6222
TAS143	ASTM D3409	ASTM D6223
ASTM C719	ASTM D3617	ASTM D6380
ASTM C793	ASTM D3909	ASTM D6509
ASTM C957	ASTM D4022 (Sections 7.1, 7.2, 7.3,	ASTM D6511
ASTM C1305	7.4 & 7.5)	ASTM D6694
ASTM D224	ASTM D4402	CAN/CGSB-37.50 (Exclude Crack Bridging)
ASTM D225	ASTM D4586	A2LA Lab Acreditation, per Certificate No.
ASTM D226	ASTM D4601	2711.01

Results of the above mentioned test shall be properly submitted to the Miami-Dade County Department of Permiting. Environment, and Regulatory Affairs per 7.45301-94, along with all other documentation required for the approval of products. Approved engineer(s) for this laboratory:

John F. Warmus, P.E., John Easley Nevin, P.E.

This Certification and Registration Approved: May 03, 2012
This Certification and Registration Expires: March 07, 2017

- •

Certification No.: 12-0419.02 Renews and Revises: 10-0222.01

Jaime D. Gascon, P.E.

Product Control Section Supervisor

Product Control Section

Americo Segura, M.S.

Quality Assurance Unit Supervisor

Product Control Section

The Miami-Dade County Department of Permiting, Environment, and Regulatory Affairs reserves the right to remove this certification for non-compliance with rules and regulations as set by Protocol 7.45301-94.

Miami-Dade County, Florida

DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS

BOARD AND CODE ADMINISTRATION DIVISON

PRODUCT CONTROL SECTION

Laboratory Certificate



11805 S.W. 26 Street-Room 208 Miami, Florida 33175-2474 T (786) 315-2590 Fax (786) 315-2599

UNDERLAYMENTS:

TASI03 Test Procedure of Self Adhered Underlayments for Use in Discontinuous Roof Systems

Section 5: Conditioning	Section 14: Accelerated Aging
Section 6: Thickness	Section 15: Cyclic Elongation
Section 8: Dimensional Stability	Section 16: Water Vapor Transmission
Section 9: Tear Resistance	Section 17: Compound Stability
Section 10: Breaking Strength and Elongation	Section 18: Puncture Resistance
Section 11: Water Absorption	Section 19: Tile Slippage
Section 12: Low Temperature Flexibility	Section 20: Crack Cycling
Section 13: Ultraviolet Resistance	Section 21: Peel Resistance
	Section 22: Granule Adhesion

TASI 04 Test Procedure for Nail-On Underlayments for Use in Discontinuous Roof Systems

Section 5: Conditioning	Section 12: Ultraviolet Resistance
Section 6: Thickness	Section 13: Accelerated Aging
Section 8: Tear Resistance	Section 14: Cyclic Elongation
Section 9: Breaking Strength and Elongation	Section 15: Water Vapor Transmission
Section 10: Water Absorption	Section 17: Tile Slippage Resistance
Section 11: Low Temperature Flexibility	Section 18: Granule Adhesion

PHYSICAL PROPERTY REQUIREMENTS:

TASI 10 Physical Property Requirements of Roof Membranes, Insulation Materials, Membrane Coatings and Other Roofing Components

Section 2:	ASPHALT BUILT-UP ROOF SYSTEM	<u>is</u>
	ASTM D224	ASTM D3019
	ASTM D226	ASTM D3409
	ASTM D228	ASTM D3747
	ASTM D41 (Excludes Section 5.1.1)	ASTM D3909
	ASTM D249	ASTM D4022
	ASTM D312	ASTM D4586
	ASTM D371	ASTM D4897
	ASTM D2178	ASTM D4601
	ASTM D2626	ASTM D5147

Momentum Technologies, inc. File No. 12-0419.02 Page 2 of 2

Section 3:

COAL-TAR PITCH BUILT-UP ROOF SYSTEMS

ASTM D4990 ASTM D227 ASTM D450

ASTM D43 (Excludes Section 5.1.5)

Section 4:

SINGLE-PLY ROOF SYSTEM ASSEMBLIES

ASTM D4434 ASTM D4637 ASTM D5019

Section 5:

LIQUID POLYETHYLENE ROOF SYSTEM ASSEMBLIES

ASTM D3468 (Excludes Section 9.8)

Section 6:

SPRAY-APPLIED POLYURETHANE FOAM ROOF ASSEMBLIES

ASTM C355

ASTM D1623

ASTM D2126

ASTM E96

Section 7:

COATINGS

ASTM D1227

ASTM D4479

ASTM D2939

ASTM D6083

Section 8:

ROOFING INSULATION

ASTM D1621 ASTM C203 ASTM E96 **ASTM D2126** ASTM C209

Section 10: NON-RIGID, DISCONTINUOUS (SHINGLE) ROOF ASSEMBLIES

ASTM D3462 (Excludes Section 8.1.3 & 8.1.4 ASTM D3018 (Excludes Section 9.1.2 & 9.1.3

TASI32 Requirements For Testing and Approval of Sealants Used in Roofing

Section

PHYSICAL PROPERTIES

7.1:

ASTM D792 ASTM D412 ASTM D624 ASTM C794 ASTM C661

Section 7.2 PERFORMANCE

All sections



The American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

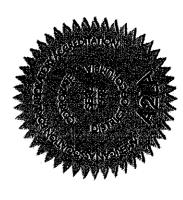
MOMENTUM TECHNOLOGIES, INC.

Uniontown, OH

for technical competence in the field of

Construction Materials Testing

the Competence of Testing and Calibration Laboratories. This accreditation demonstrates technical competence for a defined scope and the This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General Requirements for operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 13th day of December 2010.

President & CEO

For the Accreditation Council Certificate Number 2711.01

Valid to August 31, 2012

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Construction Materials Scope of Accreditation.



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

MOMENTUM TECHNOLOGIES, INC. 1507 Boettler Rd. Uniontown, OH 44685

Ms Cindy Campbell Phone: 330 896 5900

CONSTRUCTION MATERIALS

Valid To: August 31, 2012

Certificate Number: 2711.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for:

Test Method(s):	Test Description:
ASTM C719	Adhesion and Cohesion of Elastomeric Joint Sealants under Cyclic Movement
ASTM C793	Accelerated Weathering on Elastomeric Joint Sealants
ASTM C794	Adhesion-in-Peel of Elastomeric Joint Sealants
ASTM C836	Specification for Liquid Applied Waterproofing Membrane
(except sections 6.7 and 6.8)	
ASTM C957	High-Solids Content, Cold Liquid-Applied Elastomeric Waterproof Membrane
ASTM C1305	Crack Bridging Ability of Liquid-Applied Waterproofing Membrane
ASTM C1371	Determination of Emittance of Materials Near Room Temperature using Portable Emissometers
ASTM C1549	Determination of Solar Reflectance Near Ambient Temperature using a Portable Solar Reflectometer
ASTM D4	Bitumen Content
ASTM D5	Penetration of Bituminous Materials
ASTM D36	Softening Point of Bitumen (Ring and Ball Apparatus)
ASTM D92	Flash Point Cleveland Open Cup
ASTM D93	Flash Point by Pensky-Martens Closed Cup Tester
ASTM D95	Water in Petroleum Products & Bituminous Materials by Distillation
ASTM D113	Ductility of Bituminous Materials
ASTM D228	Asphalt Roll Roofing Cap Sheets and Shingles
ASTM D402	Distillation of Cut Back Bituminous Products
ASTM D412	Vulcanized Rubber and Thermoplastic Elastomers-Tension
ASTM D471	Rubber Property – Effect of Liquids
ASTM D522	Mandrel Bend Test of Attached Organic Coatings
ASTM D570	Water Absorption of Plastics

(A2LA Cert. No. 2711.01) 12/13/10

Peter Mhyer Page 1 of 3

Test Method(s):	Test Description:
ASTM D573	Rubber-Deterioration in an Air Oven
ASTM D624	Tear Strength of Conventional Vulcanized Rubber & Thermoplastic Elastomers
ASTM D751	Coated Fabrics
(except sections 4.3, 18-21, 41-49,	
59-63, 65-70, 77-84, and 89-98)	
ASTM D903	Peel or Stripping Strength of Adhesive Bonds
ASTM D1204	Linear Dimensional Changes of Non-rigid Thermoplastic Sheeting or
	Film at Elevated Temperatures
ASTM D1653	Water Vapor Transmission of Organic Coating Films
ASTM D1876	Peel Resistance of Adhesives (T-Peel Test)
ASTM D1970	Self Adhered Polymer Modified Bituminous Sheet
ASTM D2042	Solubility of Asphalt Materials in Trichloroethylene
ASTM D2240	Rubber Property Durometer Hardness
ASTM D2523	Load Strain Properties of Roofing Membrane (Tensile)
ASTM D2829	Sampling and Analysis of Built Up Roof Aggregate Analysis
(except section 4)	
ASTM D2939	Emulsified Bitumen Used as Protective Coatings
(except sections 18 and 23-28)	
ASTM D3462	Asphalt Shingles made from Glass Felt and Surfaced with Mineral
(except D3161 and E108)	Granules
ASTM D3909	Asphalt Roll Roofing (Glass Felt) with Granules
ASTM D4073	Tensile Tear Test of Asphalt Roof Membrane
ASTM D4434, D4434M	PVC Sheet Roofing
ASTM D4601	Asphalt Coated Glass Fiber Base Sheet
ASTM D4637	EPDM Sheet Used in Single-Ply Roof Membrane
ASTM D4798	Accelerated Weathering for Bituminous Materials Xenon Arc
ASTM D4799	Accelerated Weathering for Bituminous Materials QUV
ASTM D4977	Granule Adhesion to Mineral Surfaced Roofing by Abrasion
ASTM D5147	Sampling and Testing Modified
(except section 13)	
ASTM D5329	Sealant and Fillers, Hot-Applied, for Joints and Cracks in Asphalt and
(except sections 9, 10, 11, and 15)	Portland Cement Pavements
ASTM D5602	Static Puncture Resistance
(except sections 10.2.4, 10.2.5, and	
10.2.6)	
ASTM D5635	Dynamic Puncture Resistance
ASTM D5801	Toughness and Tenacity of Bituminous Materials
ASTM D6083	Liquid Applied Acrylic Coating Used in Roofing Testing for
(except ASTM G21 referenced in Table 2)	Elastomeric Roof Coatings
ASTM D6162	SBS Modified Bituminous Sheet Materials Using Reinforcements
ASTM D6163	SBS Modified Bituminous Sheet Material Glass
ASTM D6164	SBS Modified Bituminous Sheet Material Polyester
ASTM D6297	Asphaltic Plug Joints for Bridges
ASTM D6509, D6509M	APP Modified Bituminous Sheet Material Glass
(except section 8.3)	

Test Method(s):	Test Description:
ASTM D6694	Liquid-Applied Silicone Coating Used in Spray Polyurethane Foam Roof Systems
ASTM D6878	Thermoplastic Polyolefin Based Sheet Roofing
ASTM E96	Water Vapor Transmission of Materials
ASTM E2178	Air Permeance of Building Materials
ICC-ES AC-29	Fluid Applied Waterproofing
ICC-ES AC-48	Roof Underlayment for Use in Severe Climate
(except sections 4.6 and 4.9)	·
ICC-ES AC-165	Asphalt Coated Glass Fiber Mat Roof Underlayment
CAN/CGSB-37.54-95	PVC Roofing and Waterproofing Membrane
(except sections 7.3.6, 7.3.8, 7.3.12,	
7.3.13 and 7.3.14)	
CAN/CGGSB-37.50-M89	Hot Applied Rubberized Asphalt
(except sections 4.9 and 4.11)	
ASTM G154	Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials
ASTM G155	Xenon Arc (for Exposure of Non-Metallic Materials)

The laboratory is accredited for the test methods listed above. The accredited test methods are used in determining compliance with the following material specifications; however, the inclusion of these material specifications on this Scope do not confer laboratory accreditation to the material specifications. Inclusion of these material specifications on this Scope also does not confer accreditation for every method embedded within the specification. Only the methods listed above on this Scope are accredited.

ASTM D226	Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing
ASTM D312	Asphalt Used in Roofing
ASTM D449	Asphalt Used in Dampproofing and Waterproofing
ASTM D2521	Asphalt used in Canal, Ditch, and Pond Linings
(except section 4.1.7)	
ASTM D2626	Asphalt Saturated and Coated Organic Felt Base
ASTM D4586	Asphalt Roof Cement Asbestos Free
(except section 20 of ASTM D6511)	•
ASTM D4811	Non-Vulcanized Rubber Sheet
ASTM D4869	Asphalt Saturate Organic Felt Used in Underlayment
(except sections 8.1, 8.2.2, 8.2.3, 8.2.4,	
8.3, and ASTM D1922, D6136,	
F1087)	
ASTM D4897	Asphalt Coated Glass Fiber Venting Base Sheet
ASTM D6152	SEBS Modified Mopping Asphalt
ASTM D6222	APP Modified Bituminous Sheet Material Polyester
(except section 9.4)	•
ASTM D6223	APP Modified Bituminous Sheet Material Polyester/Glass
(except section 9)	
ASTM D6380	Asphalt Roll Roofing Organic Felt
(except sections 9.2)	
ASTM D6511	Solvent Bearing Bituminous Compounds
(except section 20)	-
ASTM D6690	Joint and Crack Sealants, Hot-Applied, for Concrete and Asphalt
(except sections 7.4, 7.5 and sections	Pavements
9, 10, 11 and 15 of ASTM D5329)	

Peter Mbryer